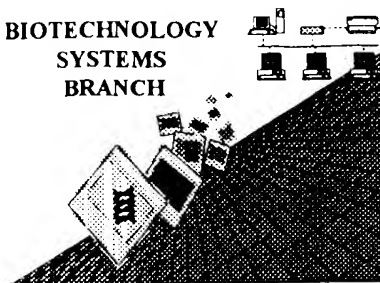


#14

1632

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/581,528B
Source: 1602
Date Processed by STIC: 1/9/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/58/528B
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/581,528B

DATE: 01/09/2002

TIME: 14:04:54

Input Set : A:\P19743.ST25.txt

Output Set: N:\CRF3\01082002\I581528B.raw

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Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: TAKEDA, Masatoshi
 4 TAKEDA, Junji
 6 <120> TITLE OF INVENTION: Gene Mutant Animals
 8 <130> FILE REFERENCE: P19743
 10 <140> CURRENT APPLICATION NUMBER: 09/581,528B
 11 <141> CURRENT FILING DATE: 1999-01-07
 13 <150> PRIOR APPLICATION NUMBER: PCT/JP99/00015
 14 <151> PRIOR FILING DATE: 1999-01-07
 16 <160> NUMBER OF SEQ ID NOS: 17
 18 <170> SOFTWARE: PatentIn version 3.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 467
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Human
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 31 20 25 30
 33 Arg Glu Arg Gln Glu His Asn Asp Arg Arg Ser Leu Gly His Pro Glu
 34 35 40 45
 36 Pro Leu Ser Asn Gly Arg Pro Gln Gly Asn Ser Arg Gln Val Val Glu
 37 50 55 60
 39 Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys
 40 65 70 75 80
 42 His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val
 43 85 90 95
 45 Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
 46 100 105 110
 48 Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg
 49 115 120 125
 51 Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val
 52 130 135 140
 54 Val Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys
 55 145 150 155 160
 57 Val Ile His Ala Trp Leu Ile Ile Ser Ser Leu Leu Leu Phe Phe
 58 165 170 175
 60 Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala
 61 180 185 190
 63 Val Asp Tyr Ile Thr Val Ala Leu Leu Ile Trp Asn Phe Gly Val Val
 64 195 200 205
 66 Gly Met Ile Ser Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala
 67 210 215 220
 69 Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr
 70 225 230 235 240
 72 Leu Pro Glu Trp Thr Ala Trp Leu Ile Leu Ala Val Ile Ser Val Tyr
 73 245 250 255

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79          275          280          285
81 Ser Ser Thr Met Val Trp Leu Val Asn Met Ala Glu Gly Asp Pro Glu
82          290          295          300
84 Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu Ser Thr
85 305          310          315          320
87 Glu Arg Glu Ser Gln Asp Thr Val Ala Glu Asn Asp Asp Gly Gly Phe
88          325          330          335
90 Ser Glu Glu Trp Glu Ala Gln Arg Asp Ser His Leu Gly Pro His Arg
91          340          345          350
93 Ser Thr Pro Glu Ser Arg Ala Ala Val Gln Glu Leu Ser Ser Ser Ile
94          355          360          365
96 Leu Ala Gly Glu Asp Pro Glu Glu Arg Gly Val Lys Leu Gly Leu Gly
97          370          375          380
99 Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala
100 385          390          395          400
102 Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile
103          405          410          415
105 Gly Leu Cys Leu Thr Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
106          420          425          430
108 Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala
109          435          440          445
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112          450          455          460
114 Phe Tyr Ile
115 465

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117 <210> SEQ ID NO: 2

118 <211> LENGTH: 1404

119 <212> TYPE: DNA

120 <213> ORGANISM: Human

122 <400> SEQUENCE: 2

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127 agacggagcc ttggccaccc tgagccatta tetaatggac gaccccaggg taactcccgg      180
129 caggtggtgg agcaagatga ggaagaagat gaggagctga cattgaaata tgqcgccaag      240
131 catgtgatca tgctctttgt ccctgtgact ctctgcatgg tgggtgctgt ggcctactatt      300
133 aagtcagtca gcttttatac ccggaaggat gggcagctaa tctatacccc attcacagaa      360
135 gataccgaga ctgtgggcca gagagccctg cactcaattc tgaatgctgc catcatgatc      420
137 agtgtcattg ttgtcatgac tatcctcctg gtggttctgt ataaatacag gtgctataag      480
139 gtcattccatg cctggcttat tatatcatct ctattgttgc tgttcttttt ttcattcatt      540
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143 ctgatctgga attttggtgt ggtgggaatg atttccattc actggaaagg tccacttcga      660
145 ctccagcagg catatctcat tatgattagt gccctcatgg ccctggtgtt tatcaagtac      720
147 ctccctgaat ggactgcgtg gctcatcttg gctgtgattt cagtatatga tttagtggct      780
149 gttttgtgtc cgaaaaggctc acttcgtatg ctggttgaaa cagctcagga gagaaatgaa      840
151 acgttttttc cagctctcat ttactcctca acaatggtgt ggttggtgaa tatggcagaa      900
153 ggagaccceg aagctcaaaag gagagtatcc aaaaattcca agtataatgc agaaagcaca      960

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/581,528B

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159 gtccagggaac ttccagcag tctctcgtt ggtgaagacc cagaggaaag gggagtaaaa 1140
161 cttggattgg gagatttcat ttctacagt gttctggttg gtaaagcctc agcaacagcc 1200
163 aqtgagagct ggaacacaac catagcctgt ttctagcca tattaattgg ttgtgcctt 1260
165 acattattac tcttggccat ttcaagaaa gcattgccc ctcttccaat ctccatcacc 1320
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182 Ser Glu Asp Ser His Ser Ser Ser Ala Ile Arg Ser Gln Asn Asp Ser
183 20 25 30
185 Glu Glu Arg Gln Gln Gln His Asp Arg Gln Arg Leu Asp Asn Pro Glu
186 35 40 45
188 Pro Ile Ser Asn Gly Arg Pro Gln Ser Asn Ser Arg Gln Val Val Glu
189 50 55 60
191 Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys
192 65 70 75 80
194 His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val
195 85 90 95
197 Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
198 100 105 110
200 Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg
201 115 120 125
203 Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val
204 130 135 140
206 Ile Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys
207 145 150 155 160
209 Val Ile His Ala Trp Leu Ile Ile Ser Ser Leu Leu Leu Leu Phe Phe
210 165 170 175
212 Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala
213 180 185 190
215 Val Asp Tyr Val Thr Val Ala Leu Leu Ile Trp Asn Phe Gly Val Val
216 195 200 205
218 Gly Met Ile Ala Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala
219 210 215 220
221 Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr
222 225 230 235 240
224 Leu Pro Glu Trp Thr Ala Trp Leu Ile Leu Ala Val Ile Ser Val Tyr
225 245 250 255
227 Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val
228 260 265 270
230 Glu Thr Ala Gln Glu Arg Asn Glu Thr Leu Phe Pro Ala Leu Ile Tyr
231 275 280 285

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/581,528B

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233 Ser Ser Thr Met Val Trp Leu Val Asn Met Ala Glu Gly Asp Pro Glu
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237 305      310      315      320
239 Glu Arg Glu Thr Gln Asp Ser Gly Ser Gly Asn Asp Asp Gly Gly Phe
240      325      330      335
242 Ser Glu Glu Trp Glu Ala Gln Arg Asp Ser His Leu Gly Pro His Arg
243      340      345      350
245 Ser Thr Pro Glu Ser Arg Ala Ala Val Gln Glu Leu Ser Gly Ser Ile
246      355      360      365
248 Leu Thr Ser Glu Asp Pro Glu Glu Arg Gly Val Lys Leu Gly Leu Gly
249      370      375      380
251 Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala
252 385      390      395      400
254 Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile
255      405      410      415
257 Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
258      420      425      430
260 Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala
261      435      440      445
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264      450      455      460
266 Phe Tyr Ile
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269 <210> SEQ ID NO: 4

270 <211> LENGTH: 1404

271 <212> TYPE: DNA

272 <213> ORGANISM: Mouse

274 <400> SEQUENCE: 4

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279 aggcagagac ttgacaaccc tgagccaata tctaattgggc ggcccagag taactcaaga      180
281 caggtggtgg aacaagatga ggaggaagac gaagagctga cattgaaata tggagccaag      240
283 catgtcatca tgctctttgt ccccggtgacc ctctgcatgg tcgtcgtcgt ggccaccatc      300
285 aaatcagtca gcttctatac ccggaaggac ggtcagctaa tctacacccc attcacagaa      360
287 gacactgaga ctgtaggcca aagagccctg cactcgatcc tgaatgcggc catcatgac      420
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291 gtcacccacg cctggcttat tatttcatct ctggtgttgc tgttcttttt ttcttctatt      540
293 tacttagggg aagtatttaa gacctacaat gtcgccgtgg actacgttac agtagcactc      600
295 ctaactcgga attttggtgt ggtcgggatg attgccatcc actggaaagg ccccttctga      660
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311 gtccaggaac tttctgggag cattctaacg agtgaagacc cggaggaaaag aggaqtaaaa      1140
313 cttggactgg gagatttcat ttctctacagt gttctggttg gtaaggcctc agcaaccgcc      1200

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RAW SEQUENCE LISTING

DATE: 01/09/2002

PATENT APPLICATION: US/09/581,528B

TIME: 14:04:54

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 321 gcattccatc agtittatat ctag 1404
 324 <210> SEQ ID NO: 5
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 326 <212> TYPE: DNA
 327 <213> ORGANISM: (synthetic construct) *see item 10 on Error Summary Sheet*
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 335 <212> TYPE: DNA
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 338 <400> SEQUENCE: 6
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 347 <400> SEQUENCE: 7
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VERIFICATION SUMMARY

DATE: 01/09/2002

PATENT APPLICATION: US/09/581,528B

TIME: 14:04:55

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